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the above trips and in each case will meet party at destination. Other trips have been planned as follows:

September 17. Arlington, N. J. Train leaves Hudson Terminal Station (Erie R. R.) at 12:45 P. M. Return as desired. Cost of trip about 30 cents. Guide, Mr. O. P. Medsger.

September 24. Mt. Hope, N. Y. Train leaves 155th Street and Eighth Ave. (Putnam Division, N. Y. Central) at 9:15 A. M. Returning trains leave at 4.14 and 6.02 P. M. Cost of trip about 50 cents. Guide, Mr. Chas. VanLoan.

October 1. Special excursion for mosses to Alpine, N. J. Party will take the one o'clock boat from Peene's wharf, Yonkers, N. Y. Cost of trip about 30 cents. Guide, Mr. Williams.

October 8. West Orange, N. J. via Orange. Train leaves West 23rd St. (D. L. & W. R. R.) at 9:10 A. M. Thence as directed by, the guide, Mr. Wilson.

October 15. Special excursion for asters to Wakefield, N. Y. City. Party will meet at the terminal of the Third Avenue elevated at 1:00 P. M., where they will be met by the guide, Dr. Rydberg.

Members of the club are urged to verify the train times given above. In case of change it is understood that the train leaving nearest the advertised time will be the one used.

The Field Committee,
NORMAN TAYLOR,
Chairman

PROCEEDINGS OF THE CLUB

MAY 10, 1910

The meeting was called to order at the American Museum of Natural History at 8:25 P. M. Mr. E. B. Southwick occupied the chair. The attendance was twenty-four. After the reading and approval of the minutes of the preceding meeting, Mr. Norman Taylor spoke on "Native Trees of the Hudson Valley." The following abstract was prepared by the speaker.

"There are about 125 different kinds of trees in the area. Excluding highly technical and little known species, and those

so rare as to escape common notice, there are about 68 species of trees common in some part of the valley, often throughout it. A short popular account of most of these, illustrated by lantern-slides, aimed to bring out the salient features of the different kinds, and to draw attention to their principal economic or cultural uses."

Adjourned.

PERCY WILSON,
Secretary

OF INTEREST TO TEACHERS *

BY W. F. GANONG

SOME REFLECTIONS UPON BOTANICAL EDUCATION IN AMERICA

I come now to the fourth of the reasons why our science teaching is defective, and that is the most vital of all. *Our method of training teachers is wrong.* I believe it is true that in general our educational advances work down from above—from university to college, from college to high school and from high school to the grades; and in a general way each of these institutions is the finishing school for teachers of the grade below. Now the work of our universities is for the most part admirable in every way, but they are not good training schools for college teachers. One of the greatest of our college presidents lately remarked that the principal obstacle in the way of making a college what it ought to be is the difficulty nowadays of securing the right kind of teachers. "We have to take them as the universities supply them," he said, "and then make them into good college teachers afterwards." The defects of the universities in this respect are two-fold. First they are training students only for their own kind of activity, in which everything centers, very properly, in research; and second, they are omitting to teach divers matters very essential for the college teacher to know.

That our universities make research the central feature and great leading method of their training of graduate students is

*Address of the retiring president of the Botanical Society of America, delivered at Boston, December 28, 1909. Reprinted by permission from *Science*, March 4, 1910. See *TORREYA* for May and June.